FIG. 1

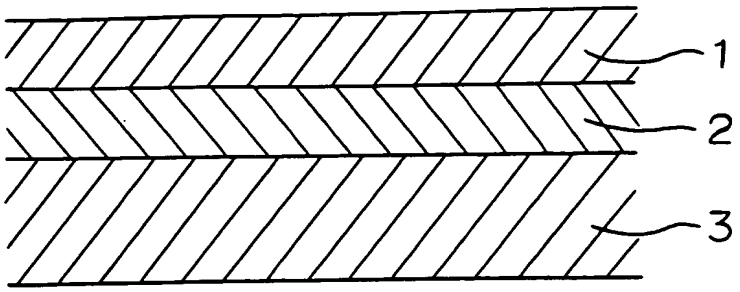


FIG. 2

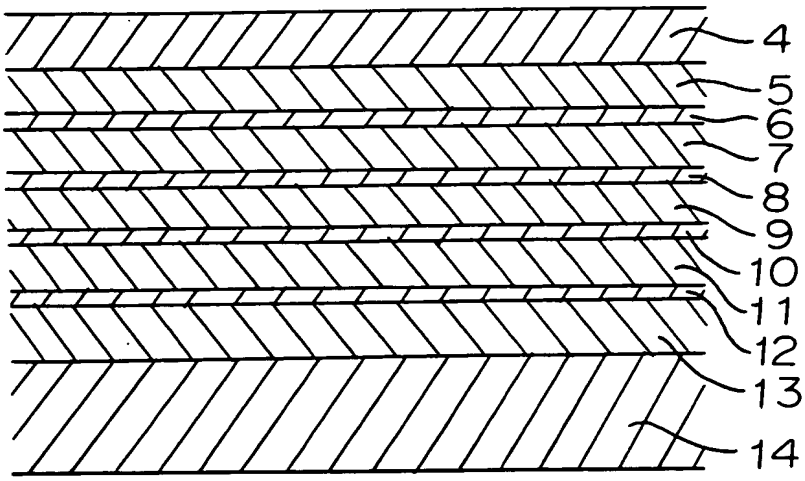


FIG. 3

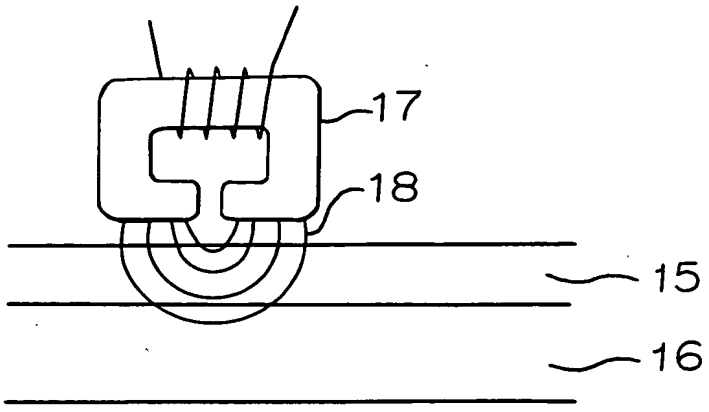


FIG. 4

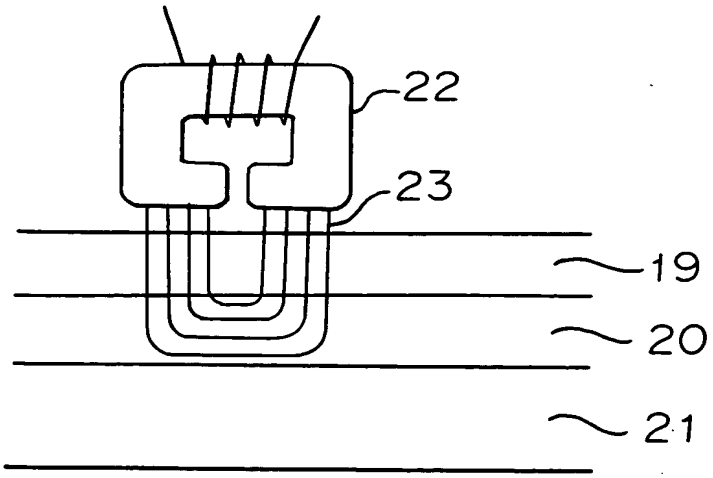


FIG. 5

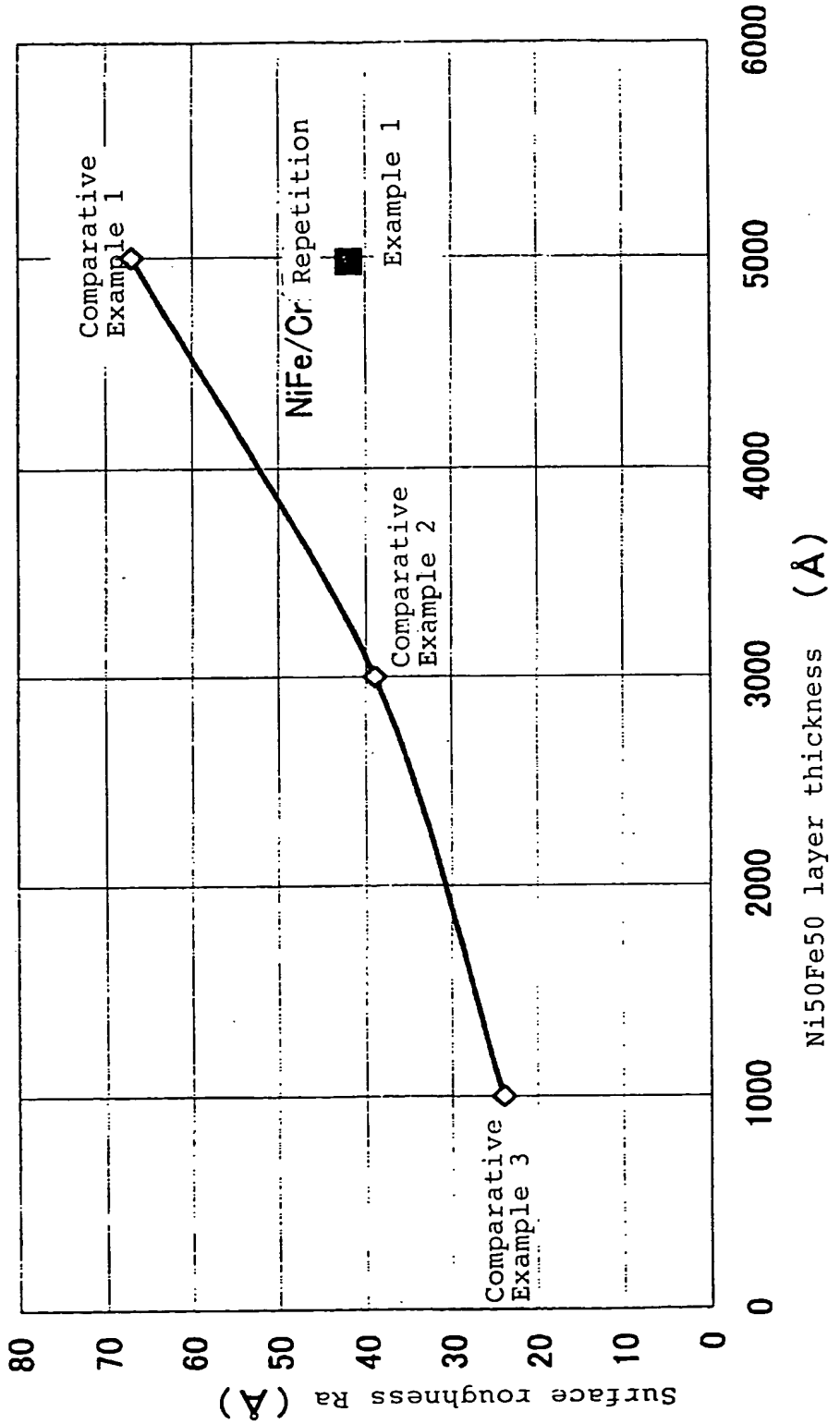
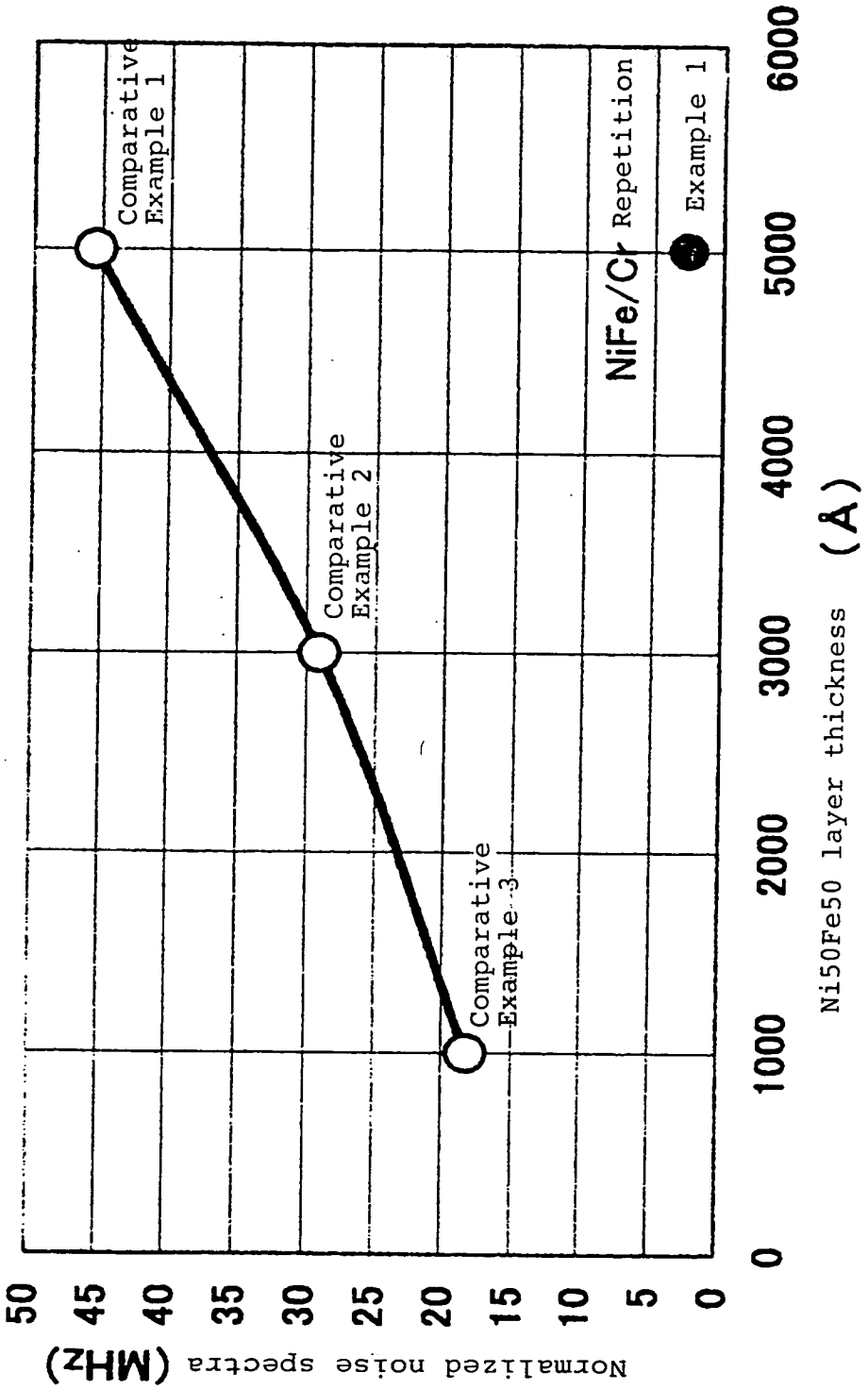

Surface roughness Ra (Å)
80
70
60
50
40
30
20
10
0
0
1000
2000
3000
4000
5000
6000
Ni50Fe50 layer thickness (Å)
Comparative Example 1
NiFe/Cr Repetition
Example 1
Comparative Example 2
Comparative Example 3

FIG. 6


Normalized noise spectra (MHz)
50
45
40
35
30
25
20
15
10
5
0
0
1000
2000
3000
4000
5000
6000
Ni50Fe50 layer thickness (Å)
NiFe/Cr Repetition
Example 1
Comparative Example 1
Comparative Example 2
Comparative Example 3